we run the code and got those required results:

g(x)_bar= -0.006306001966330276 x + 0.003370129227025073

 $E_{out} = 0.5293858342032085$

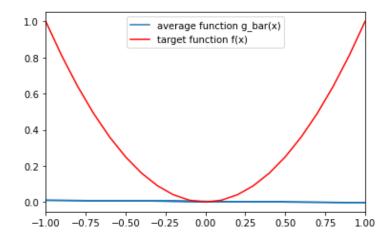
Variance= 0.34014236999732966

Bias=0.1936069894695096

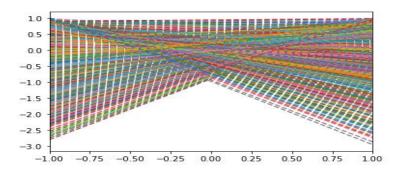
bias+variance= 0.5337493594668392

we can notice that E_out is very close to bias+variance.

The plot of the target function f(x) and the average hypothesis g(x)_bar:



The N constructed lines corresponding to the N drawn datasets:



We can visually notice that the average hypothesis is g(x)=0